Menlo Park Notebook #212 N-81-05-23]

This notebook covers the period May 1881. Most of the entries are by Charles Batchelor. There are also a few entries by Edison and John Ott. The book consists of notes and drawings of items to be sent to the Electrical Exhibition in Paris. Several loose pages, attached to page 133, contain notes relating to a contract between the Edison Lamp Company and the Edison Electric Light Company of Europe, Ltd. The label on the front cover is marked "Orders for E. E. at Paris in 1881." The book contains 280 numbered pages.

Blank pages not filmed: 188-215, 230-231, 238-275.

Missing page numbers: 25-26.

xE 172 N-81-05-23

Exhibition May-23 1881 1

People who go—

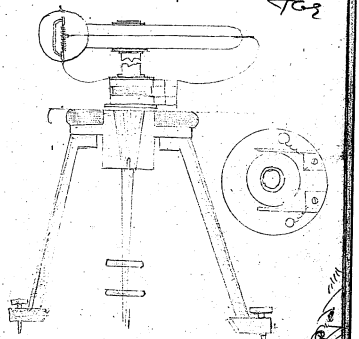
1 Kinney
2 Kinney's Boy
3 Dr Moses
4 Suebel
5 Atchison
6 Annis
7 Hammer
8 Hippele

Four

Instruments & exhibit = 3

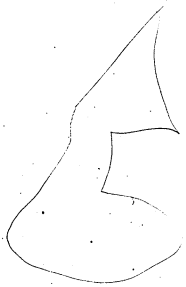
1 Thermo Galvanometer with mirror in Vacuo

2 May 21 1881



2

Air engine with platinum spiral in Cylinders



3 Bamboo Samples and all other fibre Samples

4

2 Copper Calorimeters for testing lamps.

5

Never ending Clockwork -
Davis is making clock
see him

May 23 1857

Jas

6 Mica condenser in Vacuo

May 23 1891

Tag

Shade working drawing 7.5.1894

7 Chalk Battery

May 23 1881

TAE

8 Agar lighter to be worked on the system

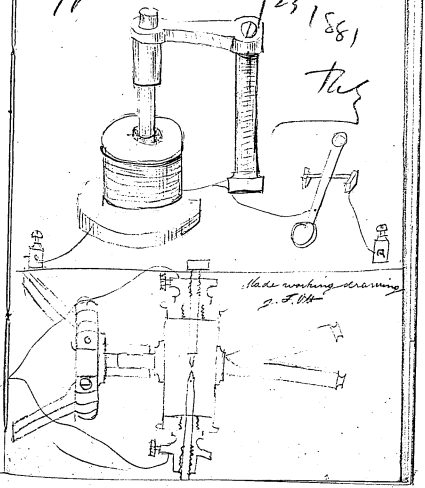
May 23 1887

Tas

9 Electric pen (3) three
12 Also one "Gramme" pens
2 Reed pens
2 Presses
1 Automatic Presses from
S. Morse.

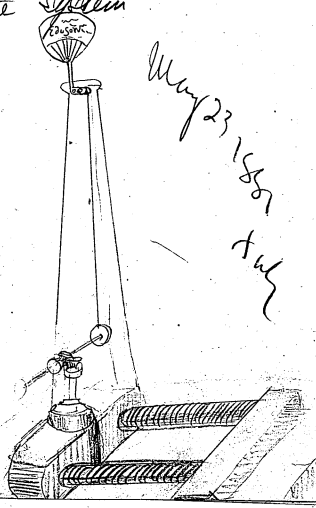
May 23 1881

10 Etherizeope and Ether C
apparatus May 23 1881



11 Electric fan to work on the system

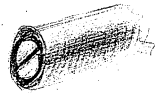
May 23, 1889 Thu



13 Motographie Galvanoma

14 Inertia Telephone

15 Samples of all street connection boxes also house boxes and street mains from Kinsei —



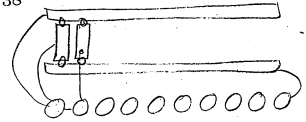
May 23, 1881

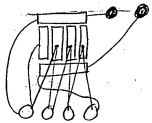
TWK

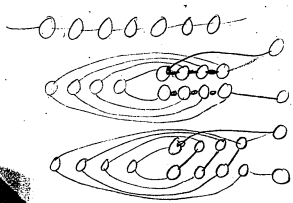
16 12 Platinum spiral
lamps 1/100 20/
high vacua

17 6 Dt spiral lamps
thermo regulators

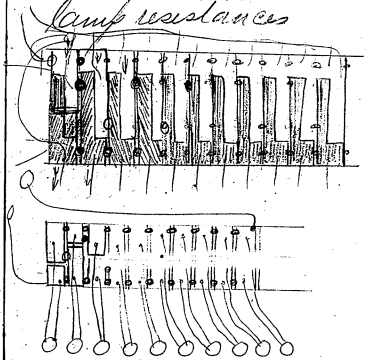
6 Turn down lamps







Resistances — with lamp resistances



May 25 1881
Chas Batchelor

20

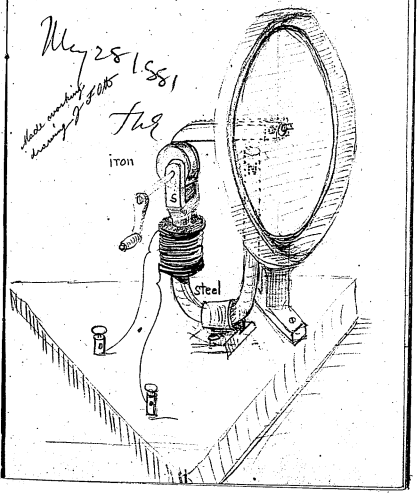
2 Sets of Leyden jars
in high vacuo 6cm
set lamp size

21

1 Magnetic Motograph

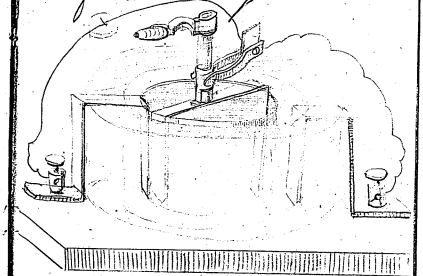
May 28 1881

Model machine having 3 poles



1 Current Regulator

fluid "Bridge"



Made working drawing of 5.06

May 28 1887

TVR

1 Hand ship Autograph
for illust: purposes

24

Samples every Kind of
telephone — at least
30 Kinds from his Closet

25

1 Photometer for use there
in good style

26

1 Electric piano

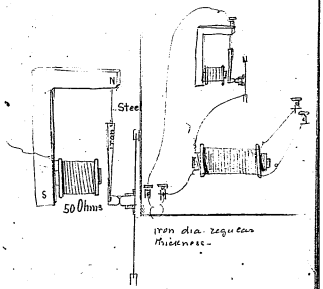
May 28 1965

Tag

1 Electric pump by
Sewing Machine Motor

28

1 Telephone repeater



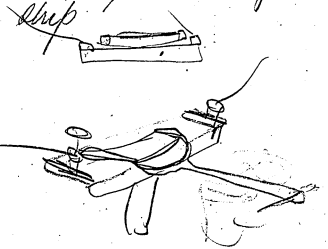
Made working drawing for Otto

May 28 1881

TAE

29

1 Relay worked by cutting in & out of Cathode Strip



made working drawing p. 5, 04

May 25-1881

Tag

30 Signalling by Thallium
line in Spectroscope

May 28 1881

Jag

Tasimeter

32

Microscope -

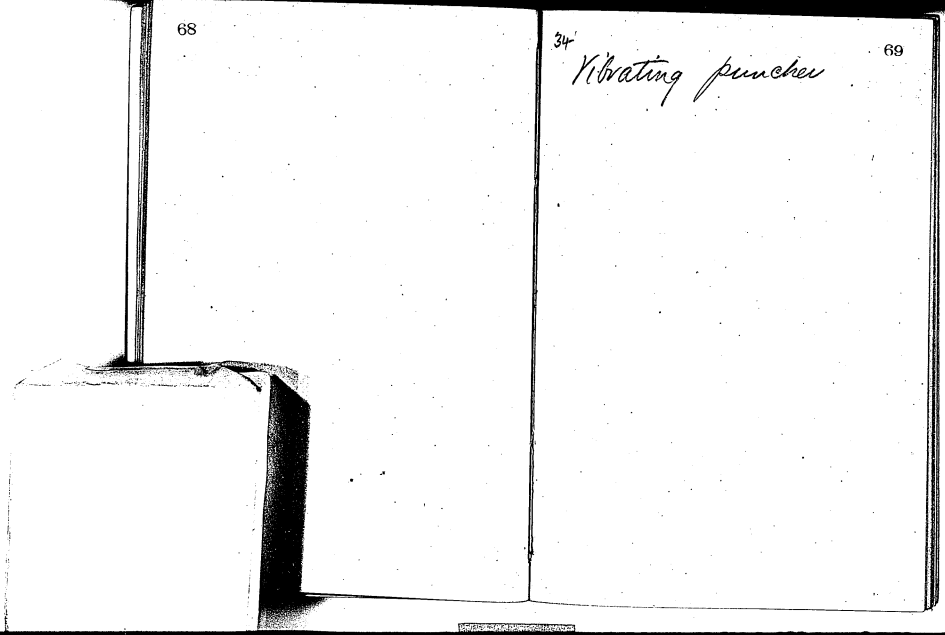
33 Small induction coil in Vacuo terminals inside

May 28 1881

Jal

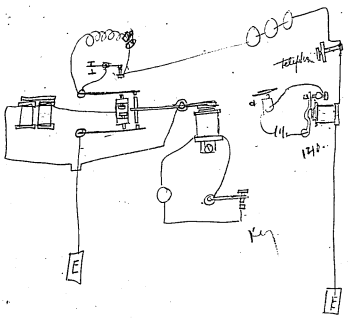
34

Vibrating puncher

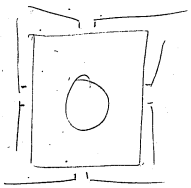


Rheumatic pen

Duplex of patent 217.782



74



609

39

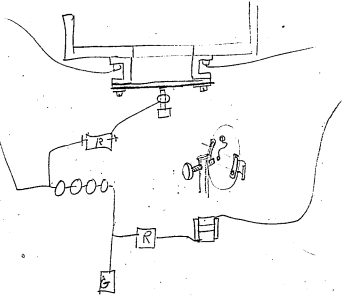
Working model of Pat. 75

203 014

Can make at Menlo

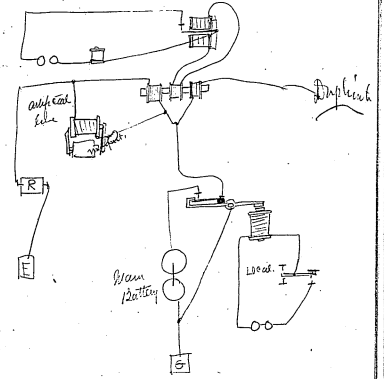
Page 662

Ed. Pat-



Duplex 8 patent

178221



2 Gold and Stock Shirts
hand kerchiefs —
Key and Shelves etc-

Roman letter perforator
Trans and Rec with extra
pens.

4 Morse Automatic -
1 Paper cutter
~~Book~~
Ten case of 100 lb Yellow paper
250 lb. Receiving paper
500 lb Perforating paper
1 Morse perforator
2 Automatic inst, table & Crank
~~Set~~ Self paper winder
Clockworks for copying
Extra pens
3 Tel. pens
24 Automatic Shunts

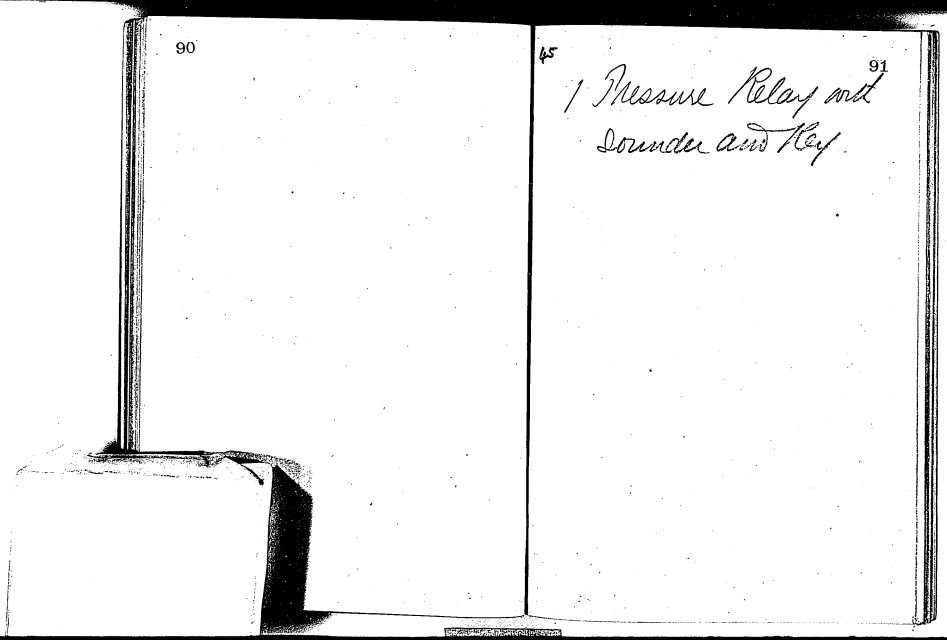
Universal printers

2 American telephones
Combinations

2 English Telephone
Microscopes

45

1 Pressure Relay and
Sounder and Key.



1 Autograph Relay
with Key

2 3 Key perforators

/ Carbon Rheostats

50

2 Fac-similés

/ Phrenomotor —

104

52

105

1 American District

1 Domestic Instrument

with recorder —

5

1 Phonograph arranged
to be talked to by
Phonograph

Photographs of 65 3rd Ave
Golden's Street Shop
Lamp Factory
at Menlo
Laboratory at Menlo
Alex Peters 1915
"Graphic" picture of
electric Railroad work
date on it

Patents

6 Sets of my U.S. patents bound

2 Bound Copies of all Eng patents to date –

2 Bound Copies of all Eng patents relating to Elec. Light

2 Copies Photo Lith. of French Patents on "Light" to date

Se

Scrapbook of publications
relating to Elec Light
especially Herald Dec
21 1879 and all about
then and few months later
Phila. Ledger - Steamship Col.

57

4 Cells Callaud battery
Copper cabbage blue vitriol

58

Drawings of Electric Buoy

59

Working models of all different transmitters

Shewn in Page 111 Vol 5 Expn Researches

P 171 Vol 5

P 175 Vol 4

60

Sewing Machine Motor & machine

61

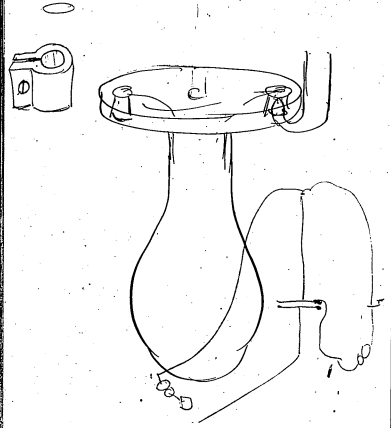
5 HP Motor

6w

1 Dynamo $\frac{9}{1000}$ for competition test

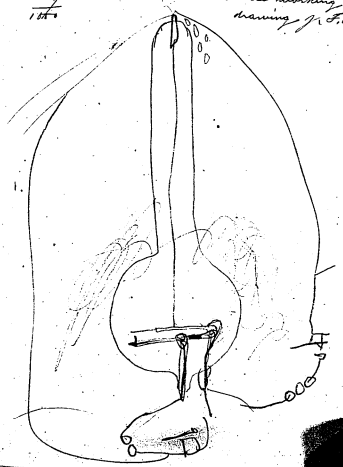
63

1 Case of Graphite sheets and loops from them



1 Expansion Relay

Made working drawing J. F. 014



65

1 Kerosene Lamp with a
bottle Blower (Electric)

Lamps

Opt Upton's order for Paris given him by Edison

[ITEM FOUND IN BOOK]

Edison Lamp No -

You will proceed to make for the Edison Electric Light Co of Europe Limited 5000 A Lamps, not less than 100 ohms and with an economy of 10 per Electrical horse power - and not to vary more than 2 volts = ~~These Lamps~~ also 2000, 8 candle A Lamps, - and 2000 8 candle B Lamps, + 500, 16 candle B Lamps

The 8 candle ~~A~~ 2 Lamps, to work on the same volts + current as the A 16 candle Lamps - ~~and~~ not to vary ~~more~~ more than 2 volts to have an economy of 20 per Electrical H.P.

The B Lamps to be worked on the same Circuit as well,

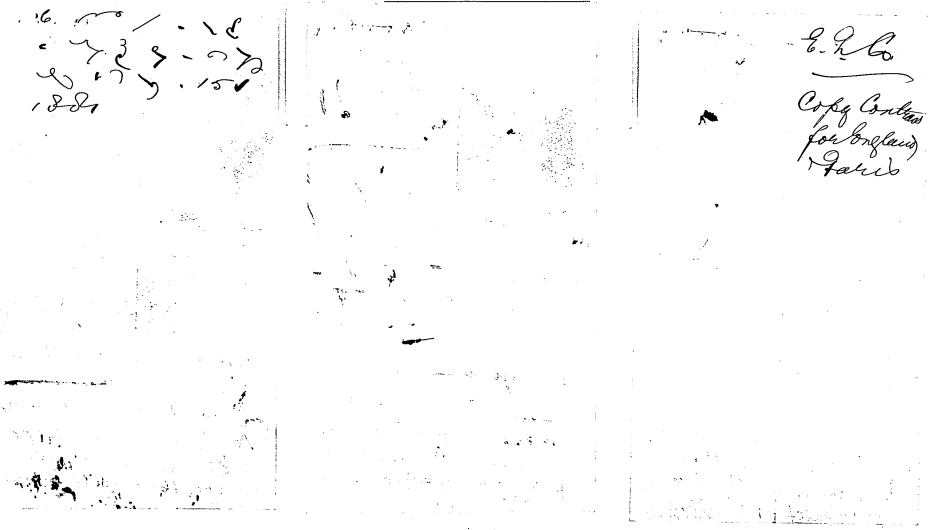
~~You will also~~

~~Also~~ also a few of the B Lamps should be put in very small globes =

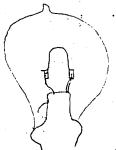
about 25 - 3 4 candle Lamps should be made that they can be worked with a battery =

You will also furnish 4 lamps with a Crown of Carbons A size with 4 inside parts sealed in one large globe all carbons in Multiple arc - and any other nice thing you think would be valuable ~~to~~ ~~Chief~~ [illegible] to the E.L.C. of Europe

[ITEM FOUND IN BOOK]

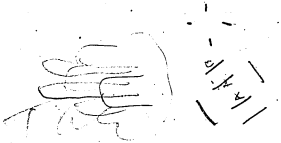


3 A Lamps E L Co. want order



Worked by Battery very small empire

E L Co - making - Fibre cut have to [illegible] straight



Tac May 28 1881

Tac Tac

69 Samples of Carbonizing Paper - Wood etc

68

New non magnetic dynamo

69 Scarlet

Crown Camps

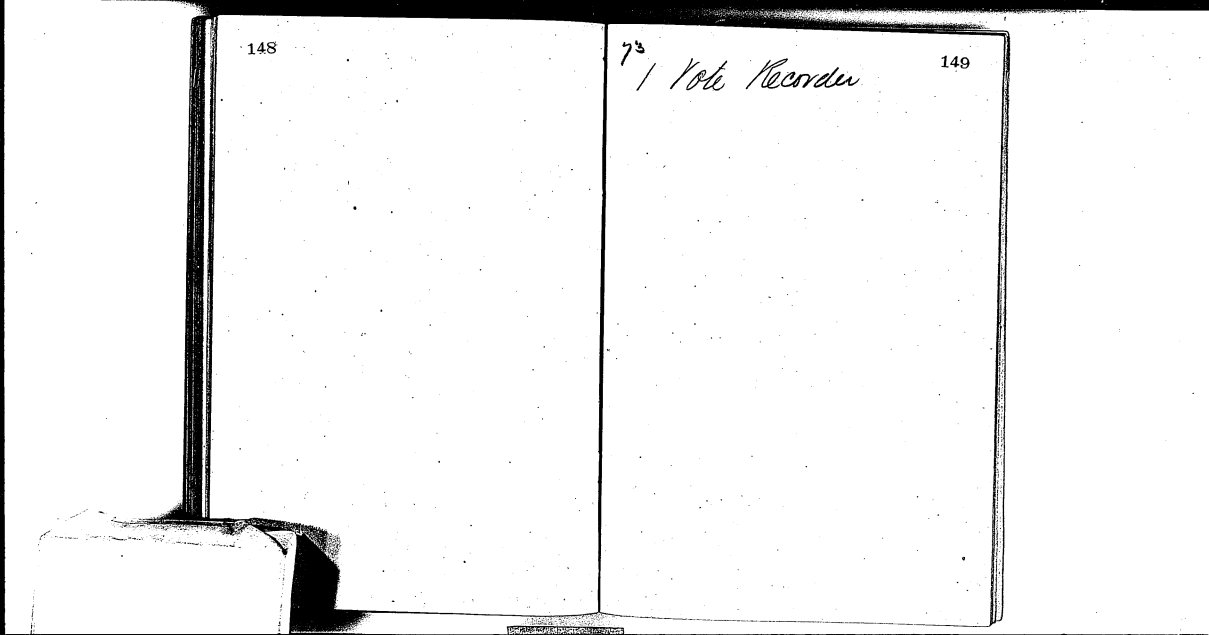
Ord. Co want order

70 Lamps

7 2 Lamps
8 B Lamps all in one Globe
in Multiple arc
@ L. Co want order

7" 6 Lamps
Graphite Carbons
C & L Co off them
want order

73
1 Vote Recorder



74

1 E.M.F. regulator for main system

75
/ Beam Meter —

76

12 Regular Meetings

77 / Junior Veber Meter

78
1 Quadruplex-set.

79

Chandeliers
Spring brackets.
Brackets
Globes
Shades.
Safety catches.
Oleaf.
Wire appliances.
Wire
Tools.
~~Cut~~ Switches.
Drop lamps.
Flexible cord.
~~Mining lamps~~
Detachable Chandeliers

80

1 Magnetic Ore Separator—

81

1 Steam Dynamo and appliances

82

Lamp stands, cabs
and lamps

93 High Vacuum tubes

84.

1 Lamp with Mercury Columns
& Brass 6" long Bamboo

6 Ground stopper Lamps
S.L. Co = Making now

86

6 Iron wire lamps

87

6 Nickel nose Clamps

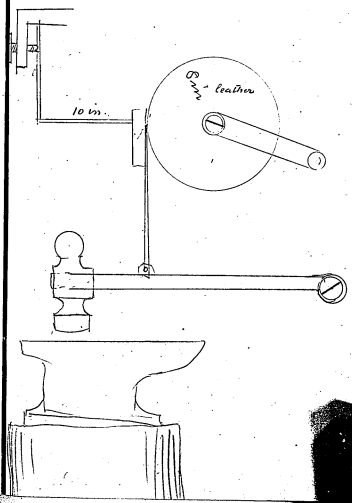
94

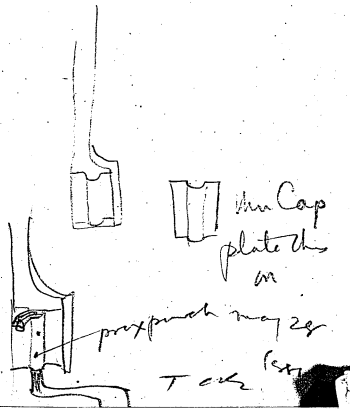
Certified Copies of the patents in telephone to show the Judges as to date when taking over the Carbon Button also Microphone

89 Johnsons Clockwork Mobograph

Switch board as
per Johnson's order

Motographic trip hammer.




thin Cap
plate thin
or
prox punch may 2p
T ck

In telephone department

I want:—

~~1 Gramia telephone~~

{Every kind of telephone from
{ caveat

~~Telephone Repeater~~

2 Improved telephone Annunciator

2 English telephone ~~Phonographs~~

1 Musical telephone outfit

1 Phonographic telephone

{Transmitter from Vol 5 Ency Cen.
{ Pages 111 171
{ Vol 4 175.

~~Johnson~~ Clockwork Phonograph

~~South~~ bound

Lamps we want

6 Special Pt lamps 17

~~17 18~~

6 Brass chrome lamps 18

66

Bergman is making
May 25th

200 3 Light Chan. 1 which 5 detachable a few with globes

100 2 " detachable"

50 1 "

50 Swing arms
25 double joint
25 single

100 Rigid brackets with cocks on cockets.

6 Desk light

4 D light Chandeliers with 1 Drop light a center

1000 Shades

250 Ornamental Safety Catch

500 plain wood 4" with
1000 ~~Brass~~ ail ifs Plugs

Cleats

Wire

Double pointed tacks

Lead wire

100 ~~Sockets~~ Extra Sockets

Screws for cleats etc
flexible Cords
Elect Tools { Pliers
Solder iron
hammers

Switches 25 No 1
12 No 2
5 No 3

Sewing mach motor and
A. M.
Bergman ~~finished by for Lays~~
finished 8th June

~~Elect~~ ~~Reg~~ ~~Main Syden~~
Elect Reg - Main Syden
Berg. Maids
Goerke St

Mayor Tebo ~~Electric~~ Electric
Berg. 1st June will be ready

Casimeter ~~Electric~~ Supplies
Berg done

Beam Meter
Send to Bergman

Jason Rhoads
Anne Bergman

Stock Quotation etc
Berg ~~early~~ June 2
mail
2 Private Line Universal
Berg 10th June

Kinney Inst
~~Inst~~ See Kinney
Bergman

~~2 Private Inst~~
~~Berg Inst Inst~~
~~Stock Quot Inst Kinney~~
~~+ Beam Meter Inst~~
~~Inst~~
~~Bergman Inst Inst Inst etc~~

3 Duplexes get order for
Bergman

Message Relay with
Relay Key
Bergman — finished

Motograph ditto
ditto

Automatic Perforator Complete Bergman June 5th

Perforator finished

Forman letter Automatic
Perforator done
next 10th June

Key, Perf
Berg

Tel Room Assist.
B. done

Berg tape
B Home

Inertia Telephone
Berg — Sounder 5th

Musical output
Berg-8 June

Thos Tel. output
Berg 1st July —

Clockwork Mots
B. 1st June —

Switchboard
B 18 June

Cigar lights
Qd drawing for Berg

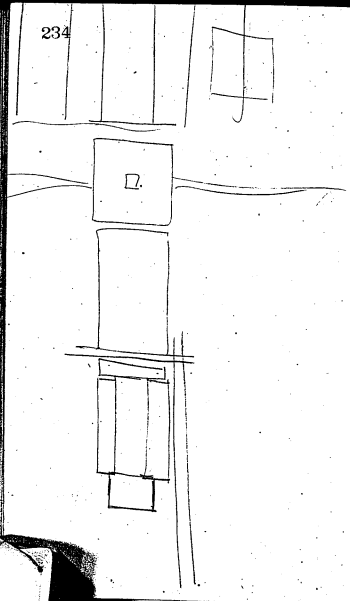
Kerosene Lamps
B— got delivd May 26

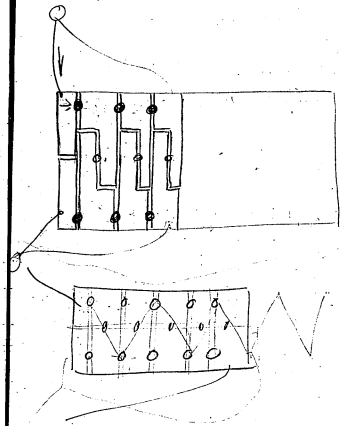
Vote Recorder
Berg Edison gave sketch

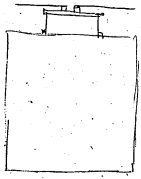
Hand stamp Mots
B— finished.

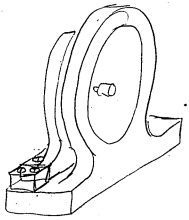
Laboratory is making
~~Batteries~~ ~~Spirals~~ &
Sum up and down Canopus
Chalk battery
Platinum spiral regulator
lamps.
Other apparatus
Thermoscope

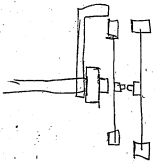
10a

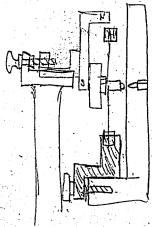


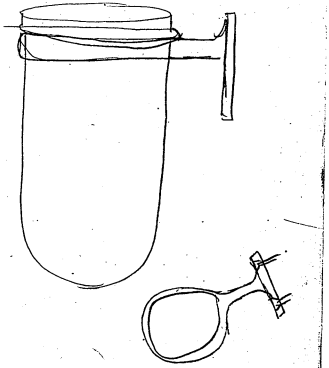










280

Bergman for Pump Motor
Fan Motor